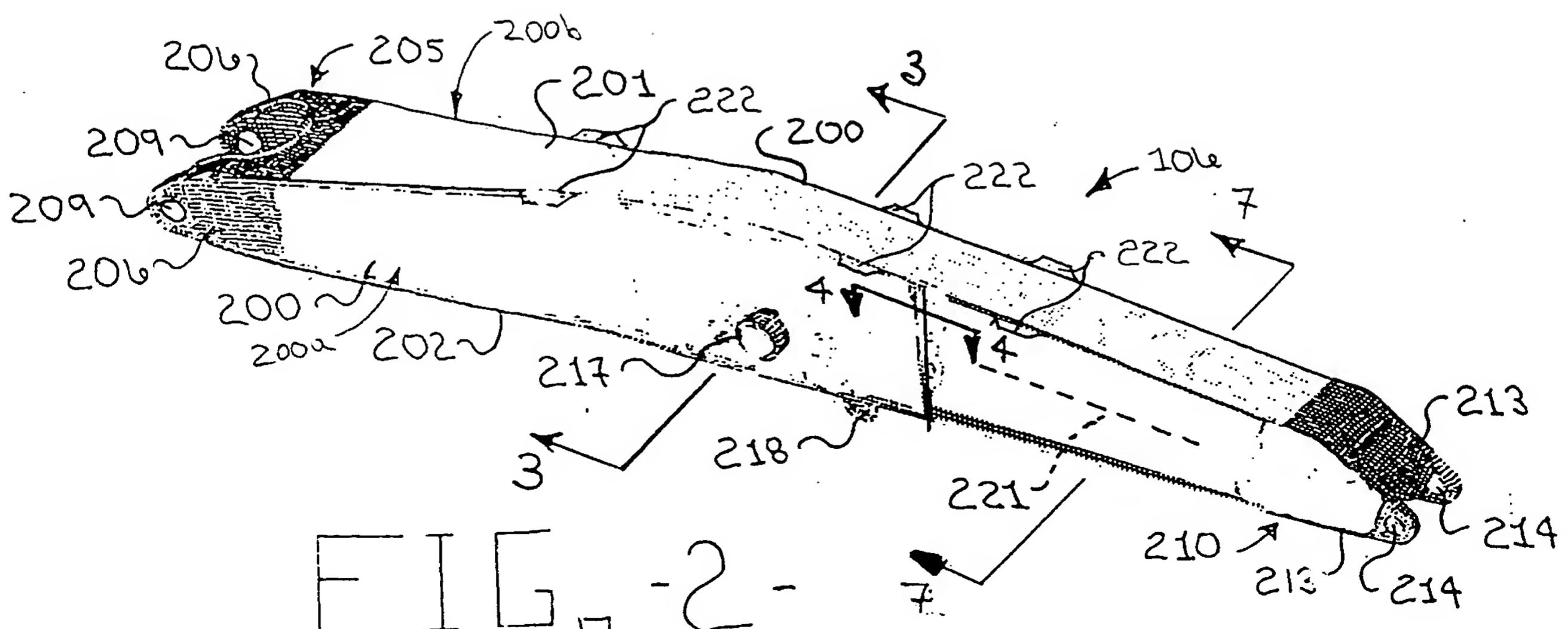


FIG. -1-



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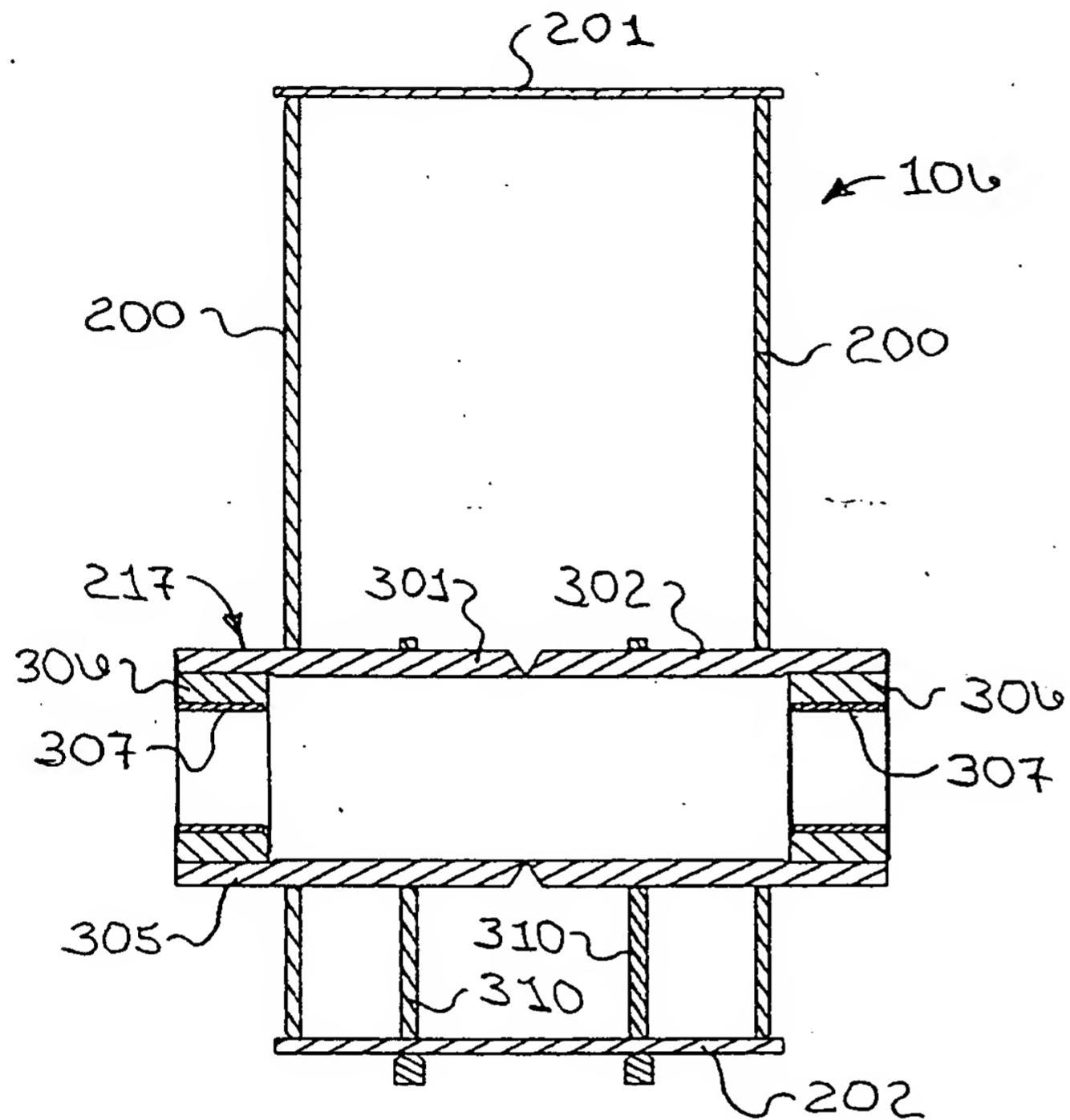


FIG. -3 -

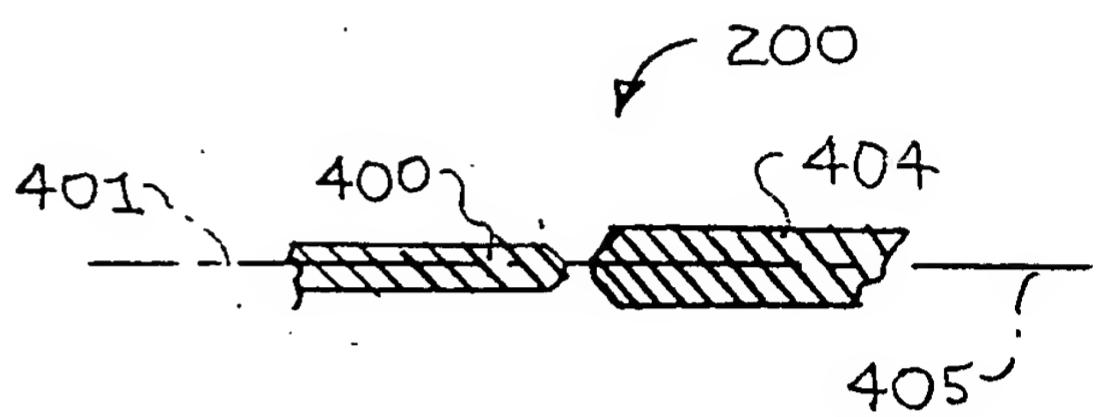


FIG. -4 -

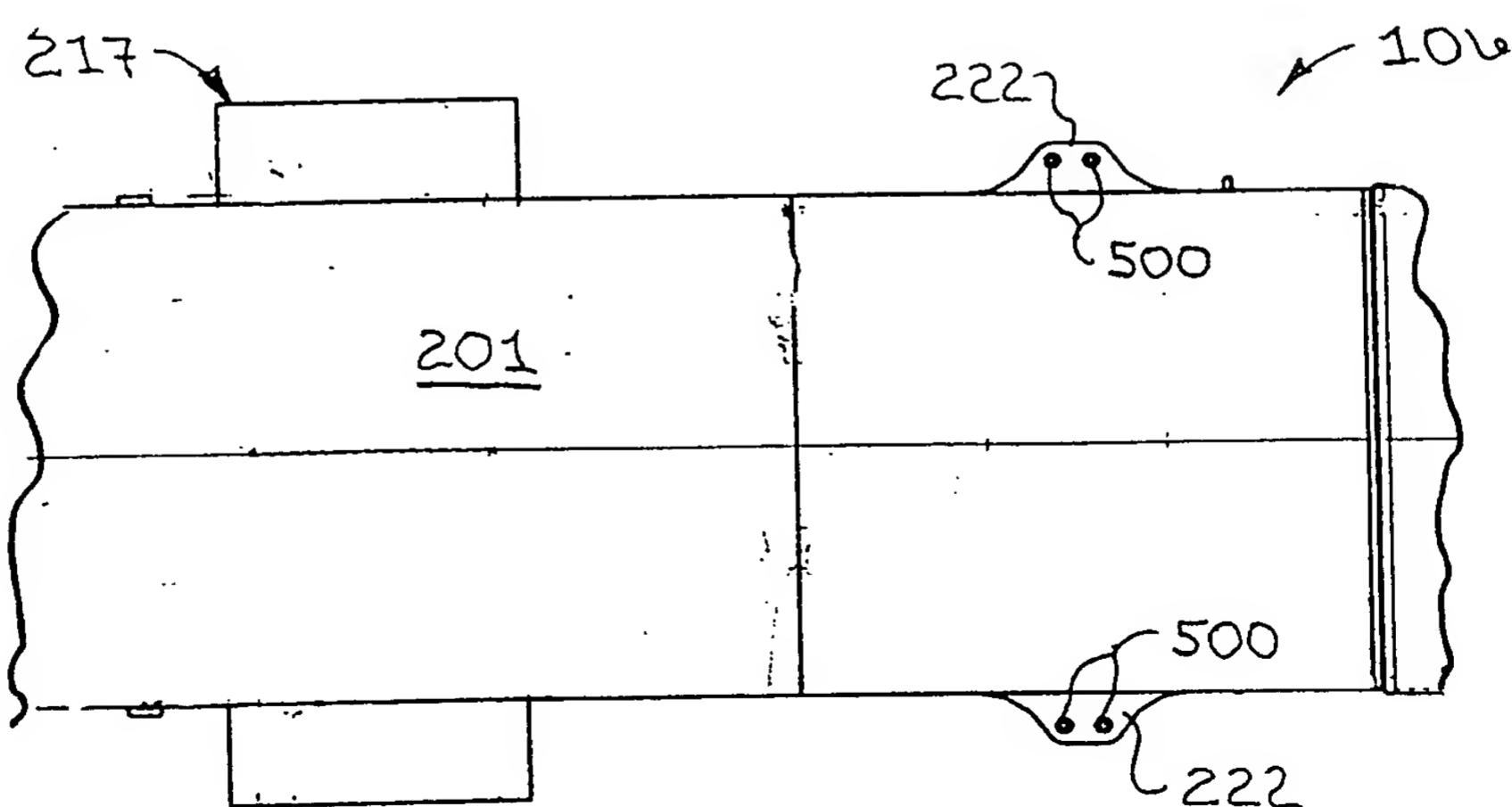
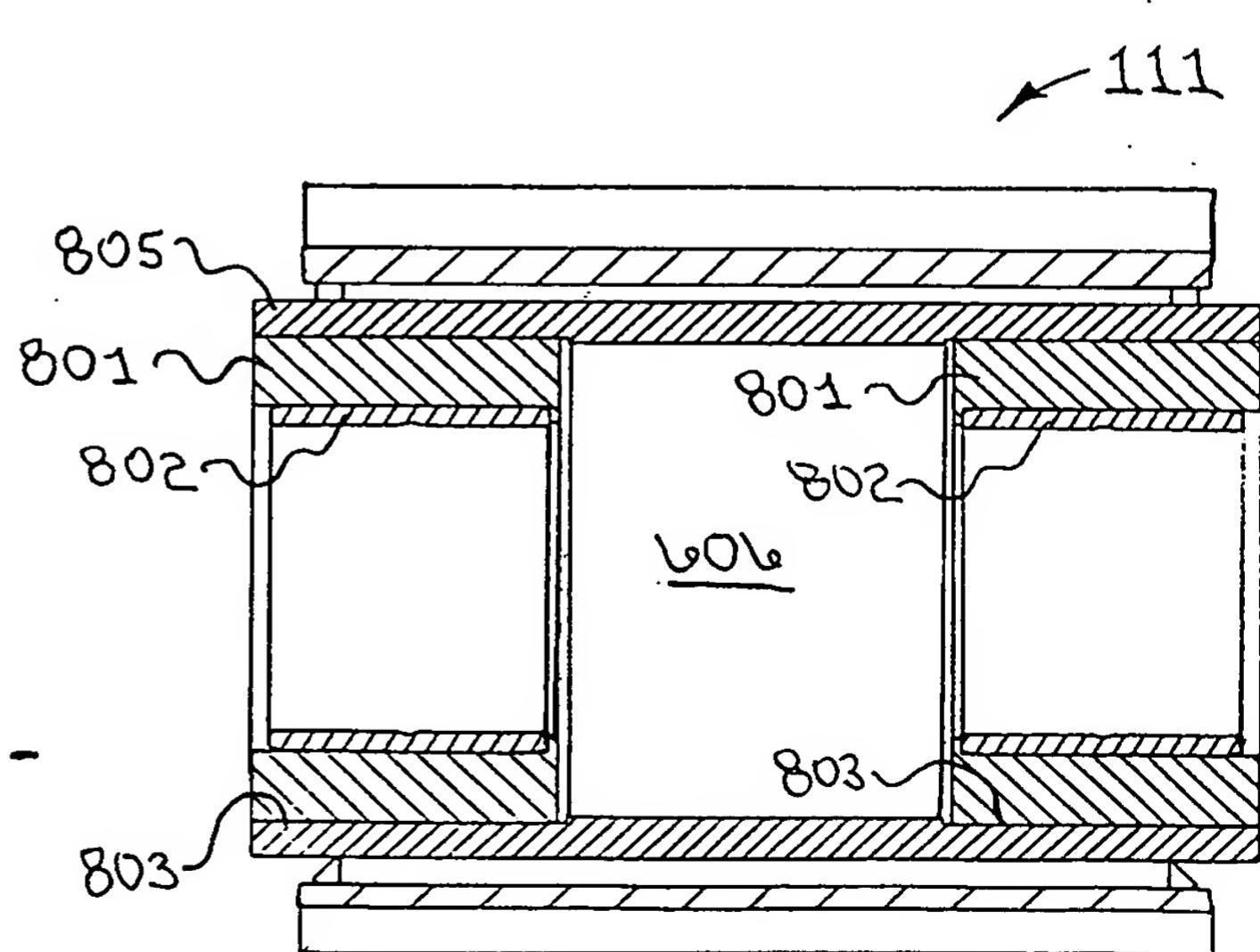
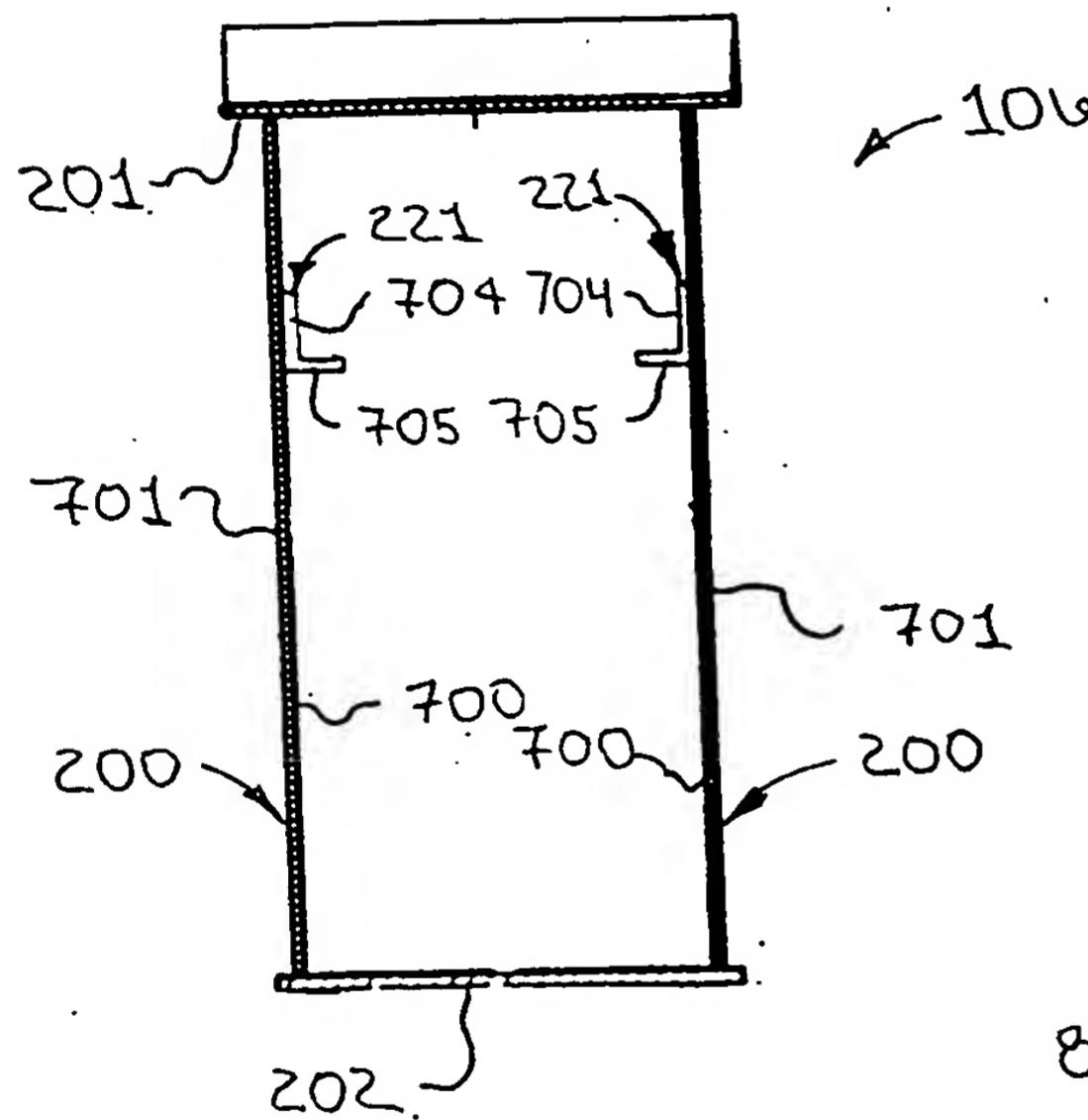
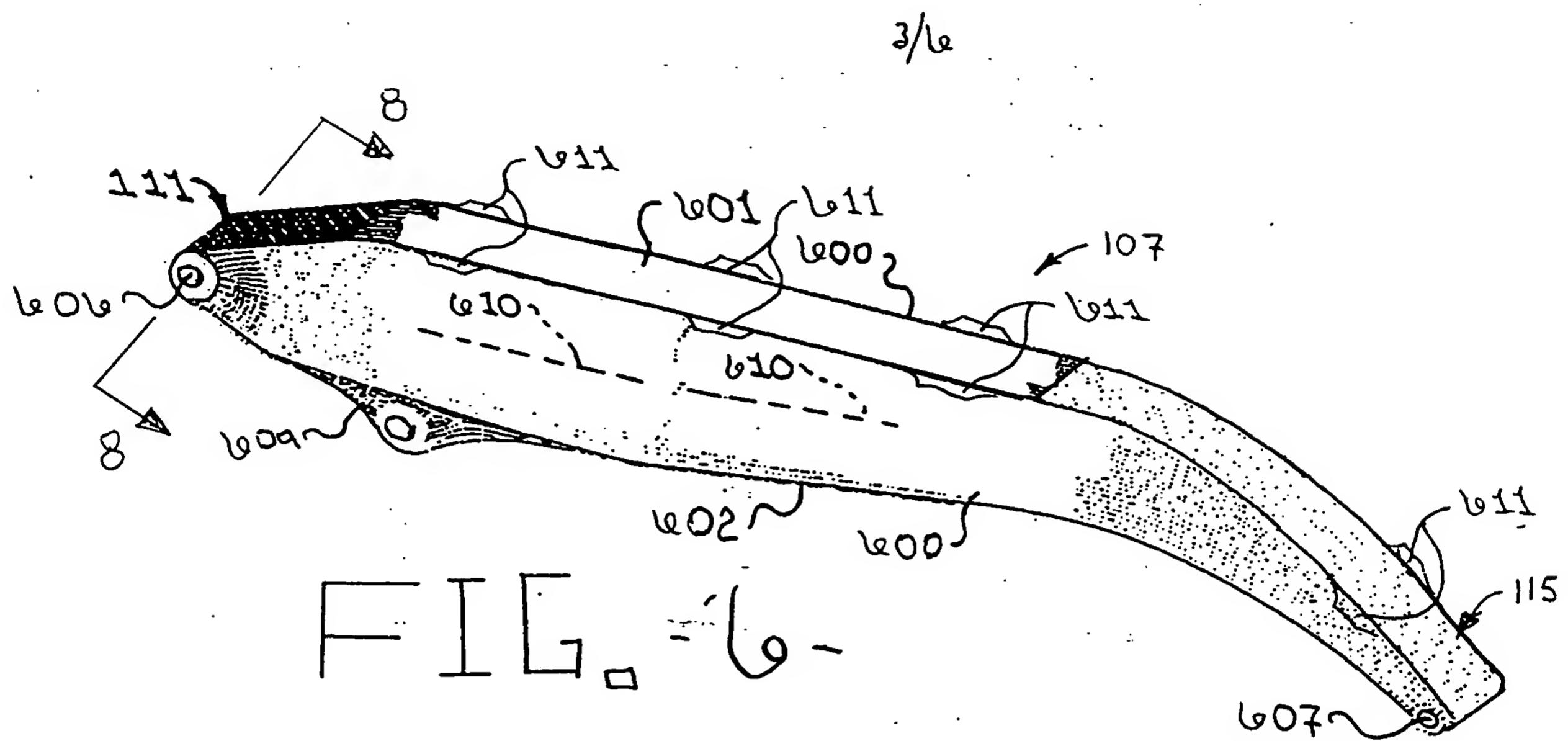


FIG. -5 -



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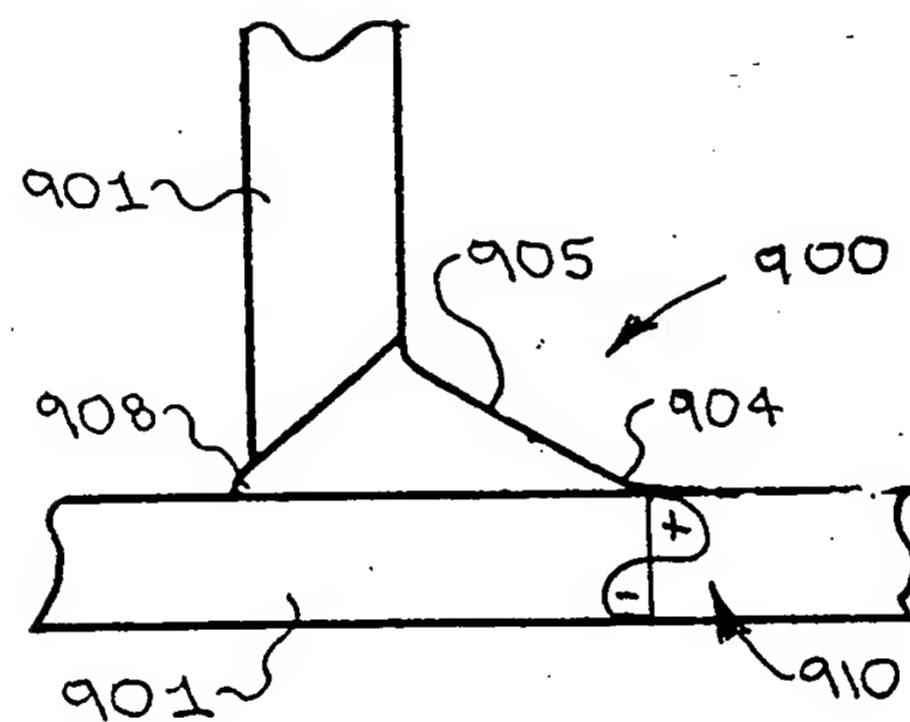
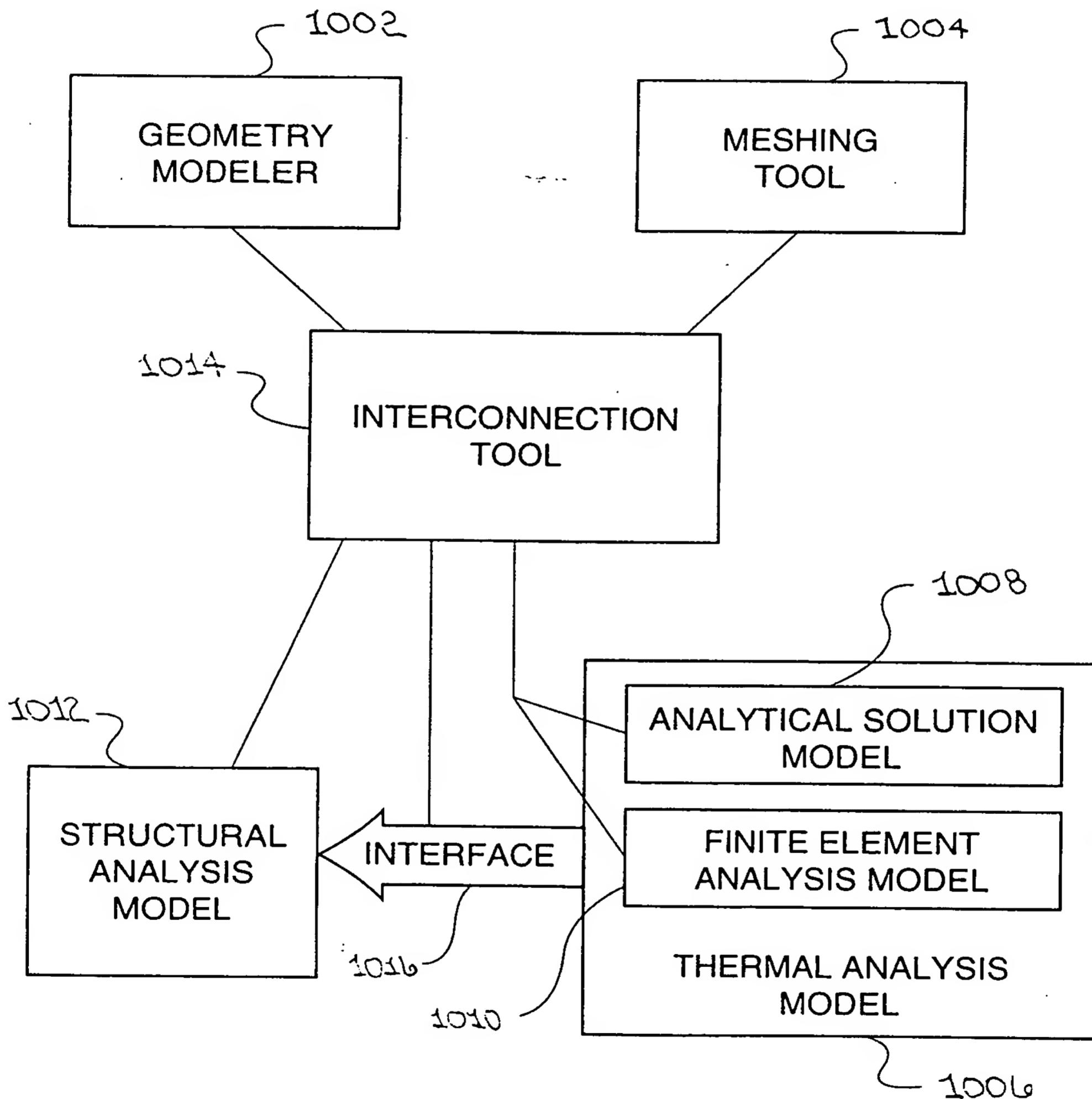


FIG. 9.

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FIG - 10 -

1000



2000

2014

H-I-D - 11 -

2004

HISTORY  
ANNIHILATION  
MODELTEMPERATURE  
HISTORY

2002

MICROSTRUCTURE

PHASE  
TRANSFORMATION  
MODELCONSTITUTIVE  
MODEL

2006

LARGE  
DEFORMATION  
MODELMATERIAL  
DATA

2018

VIRTUAL ELEMENTS  
DETECTION MODELSTRAIN  
HARDENING  
MODEL

2020